7217/65967

to place the application in idiomatic English, and the claims are amended to place them in better condition for examination.

An early and favorable examination on the merits is earnestly solicited.

Respectfully submitted, COOPER & DUNHAM, LLP

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## VERSION WITH MARKINGS TO SHOW CHANGES MADE

## IN THE ABSTRACT OF THE DISCLOSURE

The Abstract of the Disclosure has been amended as follows:

--[Disclosed is an] An audio and video reproduction apparatus including a [head mounted] head-mounted display for converting a received video signal into an image to be presented to a [listener/watcher] user; a pair of acoustic transducers each used for converting an audio signal into a sound to present to the [listener/watcher] user; [detection means] a detector for detecting an orientation of the head of the [listener/watcher] user; an image-changing [means] circuit for changing the video signal supplied to the head mounted display in accordance with [an] the orientation of the head of the [listener/watcher] user; and a sound-image localization [processing means] processor for changing [an] a sound-image localized position of an audio signal reproduced by the acoustic transducers[,] in accordance with [an] the detected orientation of the head of the [listener/watcher] user.-

## IN THE CLAIMS

Claims 1-11 have been amended as follows:

- --1. (Amended) An audio and video reproduction apparatus\_ comprising:
  - a [head mounted] head-mounted display for converting a

video signal into an image to present to a [listener/watcher]
user;

a pair of acoustic transducers each used for converting an audio signal into a sound to present to [said listener/watcher] the user;

detection means for detecting an orientation of the head of [said listener/watcher] the user;

image-changing means for changing [said] the video signal supplied to [said head mounted] the head-mounted display in accordance with [an] the orientation of the head of the [listener/watcher] user; and

sound-image localization processing means for changing
[an] a sound-image localized position of [an] the audio signal reproduced by [said] the acoustic transducers[7] in accordance with [an] the orientation of the head of [said listener/watcher] the user.

- --2. (Amended) [An] The audio and video reproduction apparatus according to claim 1, wherein [said] the pair of [the] acoustic transducers are one of headphones mounted on the head of [said listener/watcher or] the user and a pair of earphones attached to [the] ears of [said listener/watcher] the user.
- --3. (Amended) [An] The audio and video reproduction apparatus according to claim 1, wherein [said] the pair of [the] acoustic transducers are speakers provided at positions

close to the ears of [said listener/watcher] the user.

- --4. (Amended) [An] The audio and video reproduction apparatus according to claim 1, wherein [said] the detection means comprises a sensor mounted on the head of [said listener/watcher] the user and a conversion unit for converting a detection signal generated by [said] the sensor into a signal representing the orientation of the head of [said listener/watcher] the user.
- apparatus according to claim 1, wherein [said] the image-changing means is a cut-out circuit for extracting a video signal representing an image stretched over a visual-field range visible to [said listener/watcher by means of said head mounted] the user via the head-mounted display from a video signal representing an image stretched over a range wider than [said] the visual-field range in accordance with [an] the orientation of the head of [said listener/watcher] the user.
- --6. (Amended) [An] The audio and video reproduction apparatus according to claim 1, wherein [said] the image-changing means is a cut-out circuit for extracting a video signal representing an image stretched over a visual-field range of [said listener/watcher] the user from a video signal representing an image stretched over a 360-degree range

surrounding [said listener/watcher] the user in accordance with [an] the orientation of the head of [said listener/watcher] the user.

- --7. (Amended) [An] The audio and video reproduction apparatus according to claim 1, wherein [said] the image-changing means is a video synthesis circuit for synthesizing video signals representing images stretched over a visual-field range visible to [said listener/watcher by means of said head mounted] the user via the head-mounted display in accordance with [an] the orientation of the head of [said listener/watcher] the user.
- --8. (Amended) [An] The audio and video reproduction apparatus according to claim 1, wherein [said] the sound-image localization processing means [carries out] performs sound-image localization processing based on transfer functions from a sound-image localized position of [said] the audio signal to [the] ears of [said listener/watcher] the user to produce [said] the audio signal[, which]; and the audio signal is supplied to [said] the pair of [the] acoustic transducers as if [said] the audio signal were localized at [said sound image] the sound-image localized position.
- --9. (Amended) [An] The audio and video reproduction apparatus according to claim 1, wherein [said] the sound-image localization processing means converts an audio signal

representing a sound covering a 360-degree range surrounding [said listener/watcher] the user into an audio signal[, which] that is supplied to [said] the pair of [the] acoustic transducers as a reproduction signal as if [said] the reproduced sound image were localized outside the head of the [listener/watcher] user.

- --10. (Amended) [An] The audio and video reproduction apparatus according to claim 1, wherein [said] the video signal supplied to [said head mounted] the head-mounted display and [said] the audio signals supplied to [said] the acoustic transducers are reproduced from a recording medium.
- --11. (Amended) [An] The audio and video reproduction apparatus according to claim 1, wherein [said] the video signal supplied to [said head mounted] the head-mounted display and [said] the audio signals supplied to [said] the acoustic transducers are received from a network in [a real-time manner] real time.--